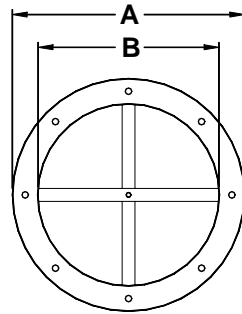


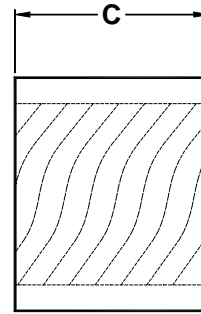


1616 FGR-IL

## Inline Spiral Silencer



FACE



SIDE

Dimensions				
A = Dia. O.D.	B = Dia. I.D.	C = Length	Face Flow I.D.	Net Weight
20 in.	16 in.	17 in.	16 in.	32 lbs.

### DYNAMIC INSERTION LOSS

Octave Bands	1	2	3	4	5	6	7	8
Center Freq. Hz	63	125	250	500	1000	2000	4000	8000
Face Velocity	Dynamic Insertion Loss in Decibels							
-4000	16	19	21	26	33	51	55	60
-3000	15	19	21	25	33	50	54	60
-2000	15	17	20	25	33	50	54	60
-1000	15	16	19	25	32	50	54	59
+1000	14	16	18	24	32	50	53	58
+2000	14	16	18	24	32	49	53	58
+3000	14	16	18	24	32	48	53	57
+4000	14	15	17	24	31	48	53	57

### AERODYNAMIC PERFORMANCE DATA

Static Pressure Loss in Inches of H <sub>2</sub> O										
	.05	.10	.15	.20	.25	.30	.40	.50	.75	1.00
Airflow in CFM	765	1980	2455	2840	3180	3485	4000	4500	5500	6365

Tel: (909) 796-6200



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**1616 FGR-IL**

**SELF GENERATED SOUND RATINGS**

Forward Flow								
Octave Bands	1	2	3	4	5	6	7	8
Center Freq. Hz	63	125	250	500	1000	2000	4000	8000
Face Velocity	Generated Sound in Sound Power Level (Lw) (dB re 10 <sup>-12</sup> Watts)							
1000	(52)	(41)	(31)	(22)	(18)	(19)	(22)	(25)
2000	(53)	(42)	(41)	40	40	41	(25)	(27)
3000	54	44	43	42	42	43	33	35

Reverse Flow								
Octave Bands	1	2	3	4	5	6	7	8
Center Freq. Hz	63	125	250	500	1000	2000	4000	8000
Face Velocity	Generated Sound in Sound Power Level (Lw) (dB re 10 <sup>-12</sup> Watts)							
1000	(52)	(41)	(31)	(22)	(18)	(19)	(22)	(25)
2000	(53)	(42)	(41)	39	40	40	(25)	(27)
3000	53	44	42	42	42	43	33	35

**NOTE:** Sound power levels in parentheses have reached ambient levels in the test facilities test room or are determined by instrument limitations. Actual levels are less than or equal to levels indicated.

The above insertion loss values and self generated sound levels are extrapolated from actual test data from an independent testing facility per ASTM E477 "Standard Methods of Testing Duct Liner Materials and Prefabricated Silencers for Acoustical and Airflow Performance". Test reports available upon request.